

Patent Abstracts of Japan

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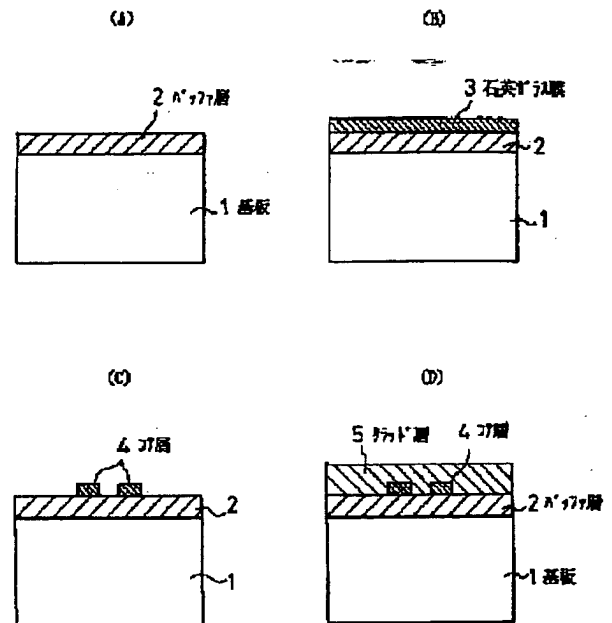
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TITLE : MANUFACTURE OF GLASS
 WAVEGUIDE



ABSTRACT : PURPOSE: To produce a glass waveguide which is small in transmission loss and has high accuracy in the shape of the waveguide.

CONSTITUTION: A buffer layer 2 of quartz glass in which fluorine is doped by deposition of fine particles of glass and formation of a transparent glass, is formed on a substrate 1. A pure quartz glass film 3 is formed on the buffer layer 2 by electron beam vapor deposition or ion sputtering. An excess portion is removed from the quartz glass film 3 to form a core layer 4. The clad layer 5 of quartz glass in which fluorine is doped by covering the buffer layer 2 and the core layer 4, is formed by the deposition of fine particles of glass and the formation of transparent glass.

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